

Product information

JUNG

DCM Video indoor station TK ISV xx x14 x



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Information about this manual

On pages 40 and 41 you can read the "terms and definitions" of this manual. We recommend to read these explanation carefully before you start the adjustment of the indoor station.

Safety instructions

! Assembly, installation, and commissioning must only be carried out by a qualified electrician!

For work on systems with 230 V AC mains current the safety requirements of DIN VDE 0100 must be observed.

When installing DCM BUS systems the general safety rules for telecommunication systems in accordance with VDE 0800 must be observed:

- separate cabling for high and low voltage lines
- minimum distance of 10 cm for joint cabling arrangements,
- use of separators between high and low voltage lines in joint cable ducts,
- use of standard telecommunication cables, e. g. J-Y (St) Y with 0.8 mm diameter

! Suitable lightning prediction must ensure that a voltage of 32 V DC will not be exceeded at the DCM BUS wires a and b.

DCM = Door Communication Management

Application / Brief description

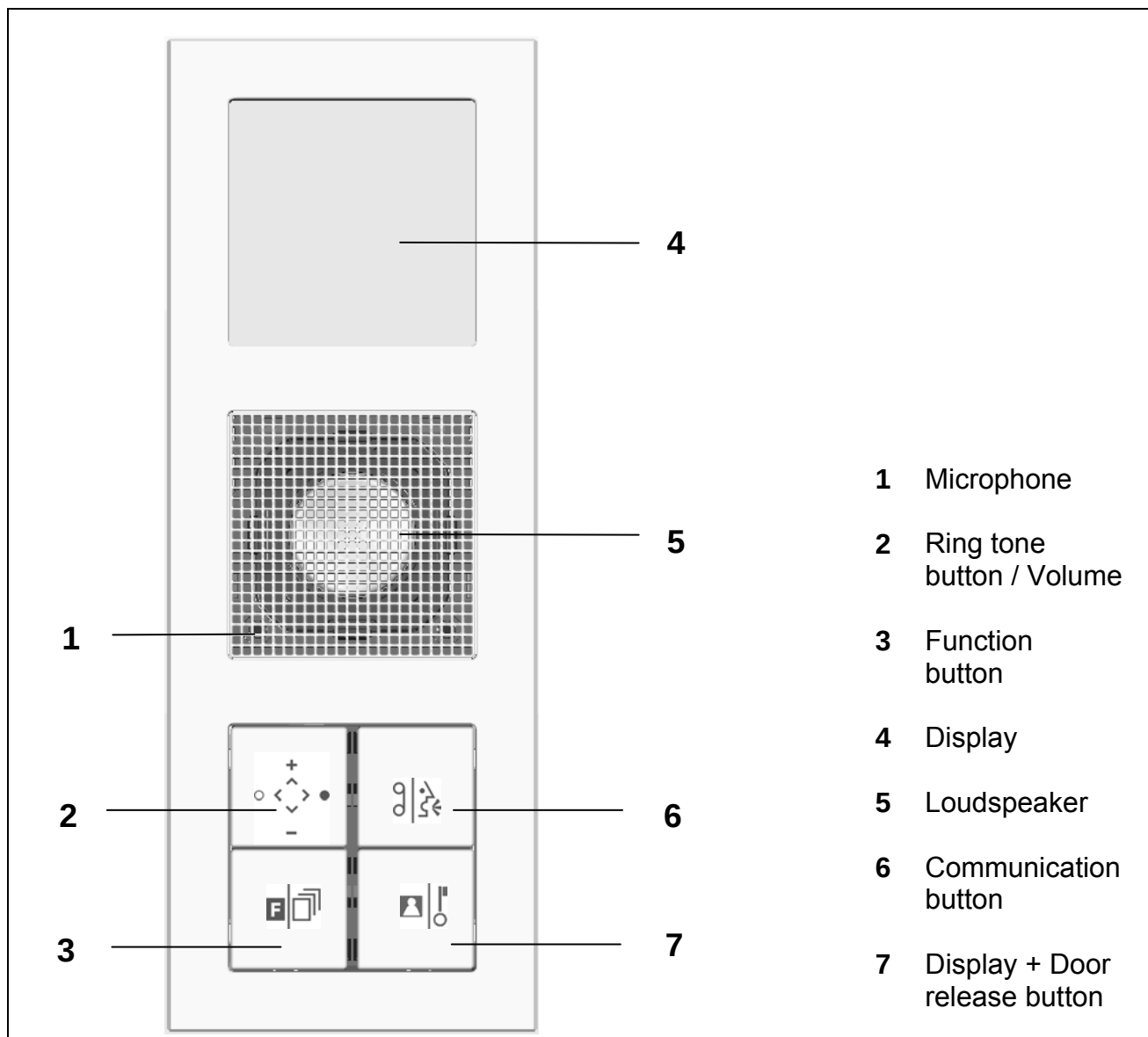
Application

- acoustical and optical indication of front door and internal calls
- hands-free **communication** with high audio quality (full duplex)
- door release function
- switching light
- **Video functions: Display of video images of the outdoor stations and cameras**

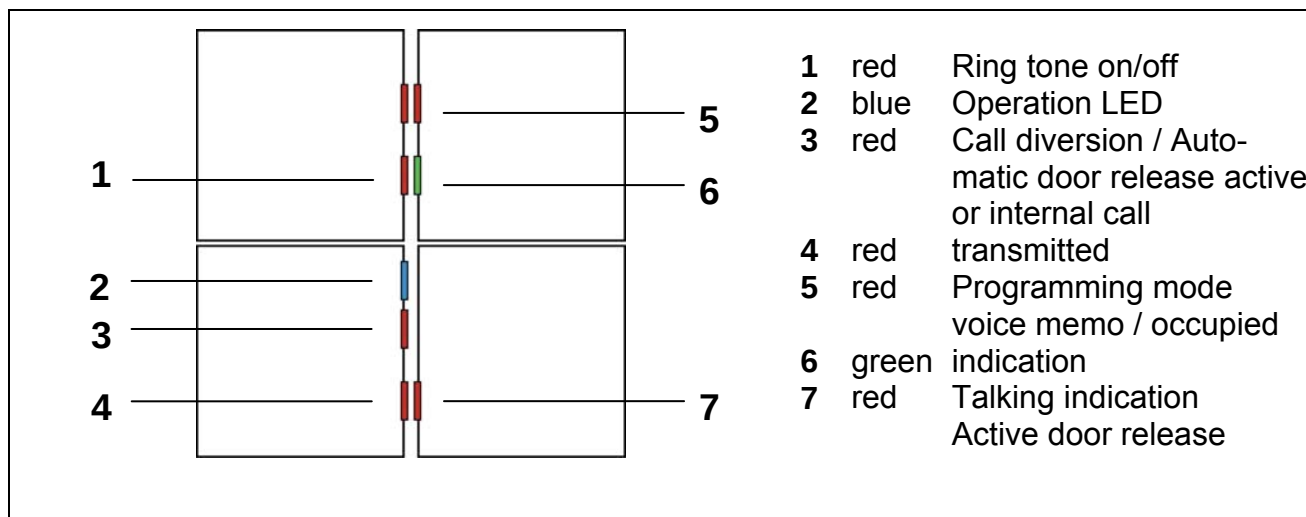
Brief description

- TFT Colour display, 2.8 ", resolution 480 x 640 pixel
- complete menu navigation via touch screen, full text
e.g.: audio settings, video settings, colour, contrast, brightness, camera selection
- released bell button at the outdoor station enables storing of image with time stamp
- large image memory
- optical zoom, scrolling of visible display area possible
- full duplex operation (noise- and line-echo-cancellation)
- hands-free communication
- internal call with automatically hands-free communication
- volume manually adjustable
- high audio quality, digital speaking quality due to active noise suppression
- Display / Door release button (to start display)
- Function button (for comprehensive setting functions)
- voice memory function for storing messages with a length up to 30 seconds
- 13 real sound ring tones (polyphone)
- 1 individual ring tone can be recorded with the internal microphone
- ring tone differentiation between main door, floor door and internal call
- sub door call: 4 bell buttons of the outdoor station can be assigned to 4 different ring tones of the indoor station
- ring tone differentiation of 2 outdoor stations
- ring tone volume manually adjustable
- ring tone mute with optical display
- parallel call can be activated
- high quality sound and great speaker dynamic
- optical indication of door calls
- integrated connection for floor door bell
- optical status indication if system is occupied (existing communication)
- audio privacy function
- automatic call cut-off
- electret capacitor microphone
- audio- and video indoor stations can be combined in the same installation
- connection: 6-wire-technique

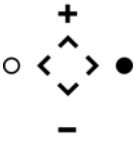
Device overview



LED functions



Indication and operation

	Display with touch function	• Display for video image, menu for setting and operation of functions
	Ring tone button	• Idle mode, operation mode, short: TOP/BOTTOM: Start menu ring tone volume LEFT/RIGHT: Ring tone On/Off • Talking mode and replay voice memo recorder short: TOP/BOTTOM:: Start menu voice volume • Starting programming mode > Setting mode for ring tone main door 1 and 2, internal call, floor bell ring tone – long (approx. 8 s) Sub door call – long (approx. 12 s)
	Indication LED (1)	LED on = Ring tone deactivated
	Communication button	• Idle mode, operation mode, short: Start hands-free communication • Hands-free communication • Start/end of hands free communication • start video display
	Indication LED green (6) (talking indication)	• off: no communication • on: talking mode • flashing: incoming door call • flashing fast: communication occupied
	LED red (5) (voice memo / occupied indication)	• flashing: voice memo function, new message
	Function button	idle mode, operation mode, talking mode short: starting menu or switching light long: start video display long, together with ring tone button: load factory settings
	Indication LED (4)	• on: Call diversion or automatic door release is activated • flashing: Internal call transmitted
	Display / Door release button	• Idle mode, operation mode,: Start display Video display or communication active: Door release • Talking mode: Door release • Start video display
	Indication LED (7)	indication for approx. 3 s after pressing the button (no indication, if light switch function is activated)
	blue LED orientation element	indication of operation mode
	Indication	illuminated, if device is active (only with 6-wire technique when P-wire is connected).

Wiring and installation

General

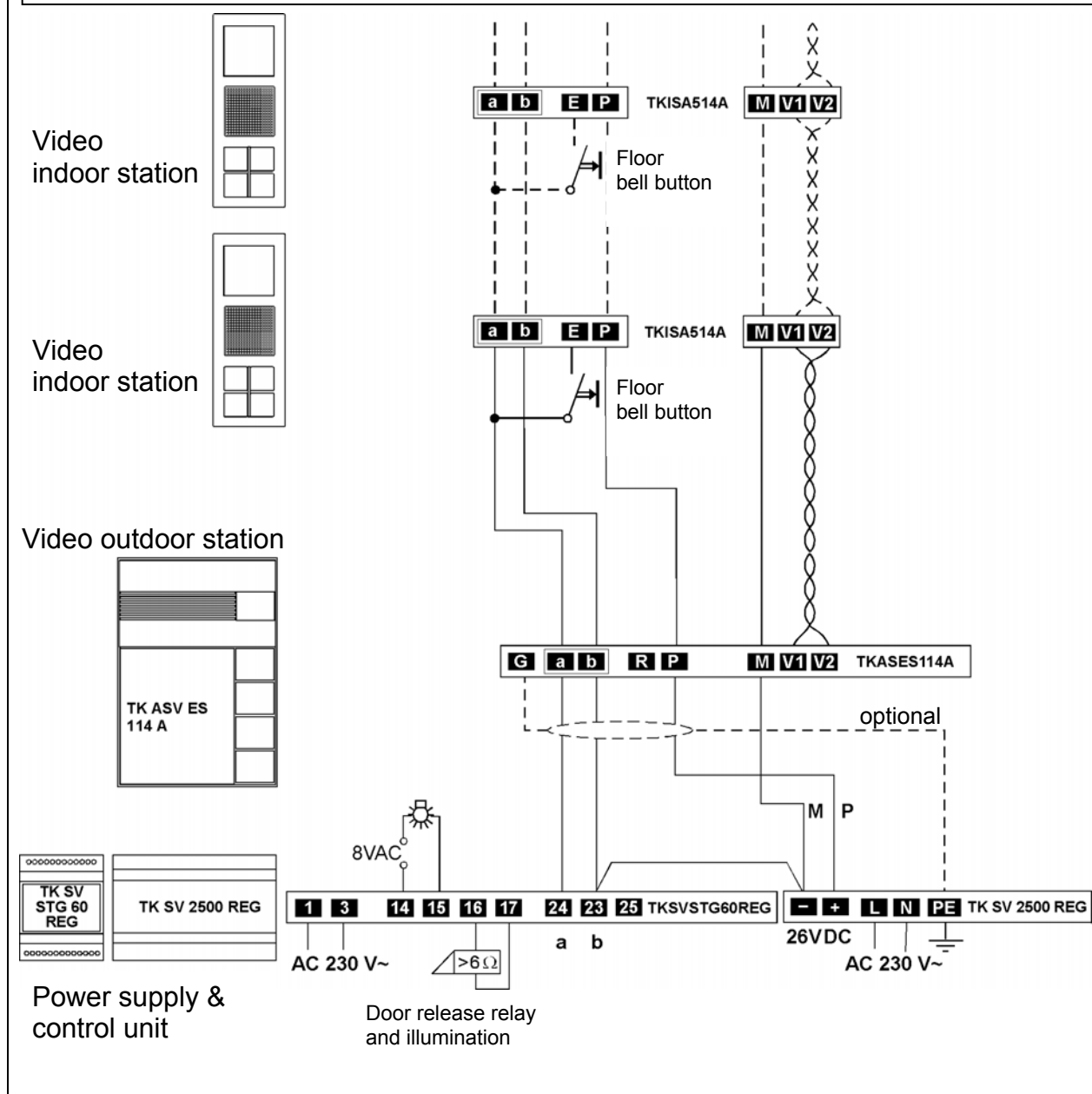
- Recommended installation into 2 flush-mounted wall boxes according to DIN 49 073

Do not over tight the plastic screws to avoid damage of the device. Install the supporting frame only onto plain surfaces . Do not paint or wallpaper the supporting frame.

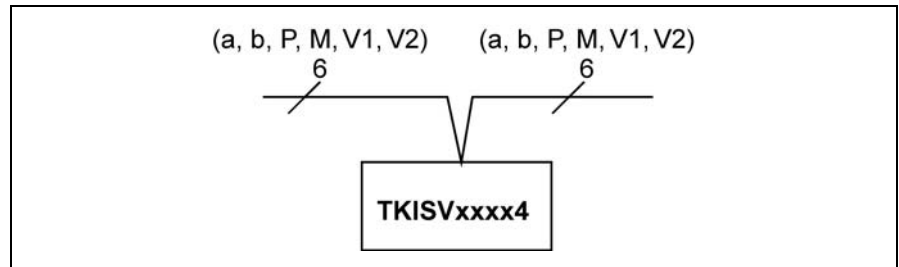
- Cable type: Standard telecommunication cables, e. g. J-Y (St) Y with a diameter of 0.6 mm or 0.8 mm.
- Connection: 6-wire-technique (See wiring example)

Wiring example 6-wire technique

The power supply units TK SV STG 60 REG + TK SV 2500 REG enable the connection of 8 indoor station + 8 parallel connected indoor station. Observe maximum output current!



Connecting diagram

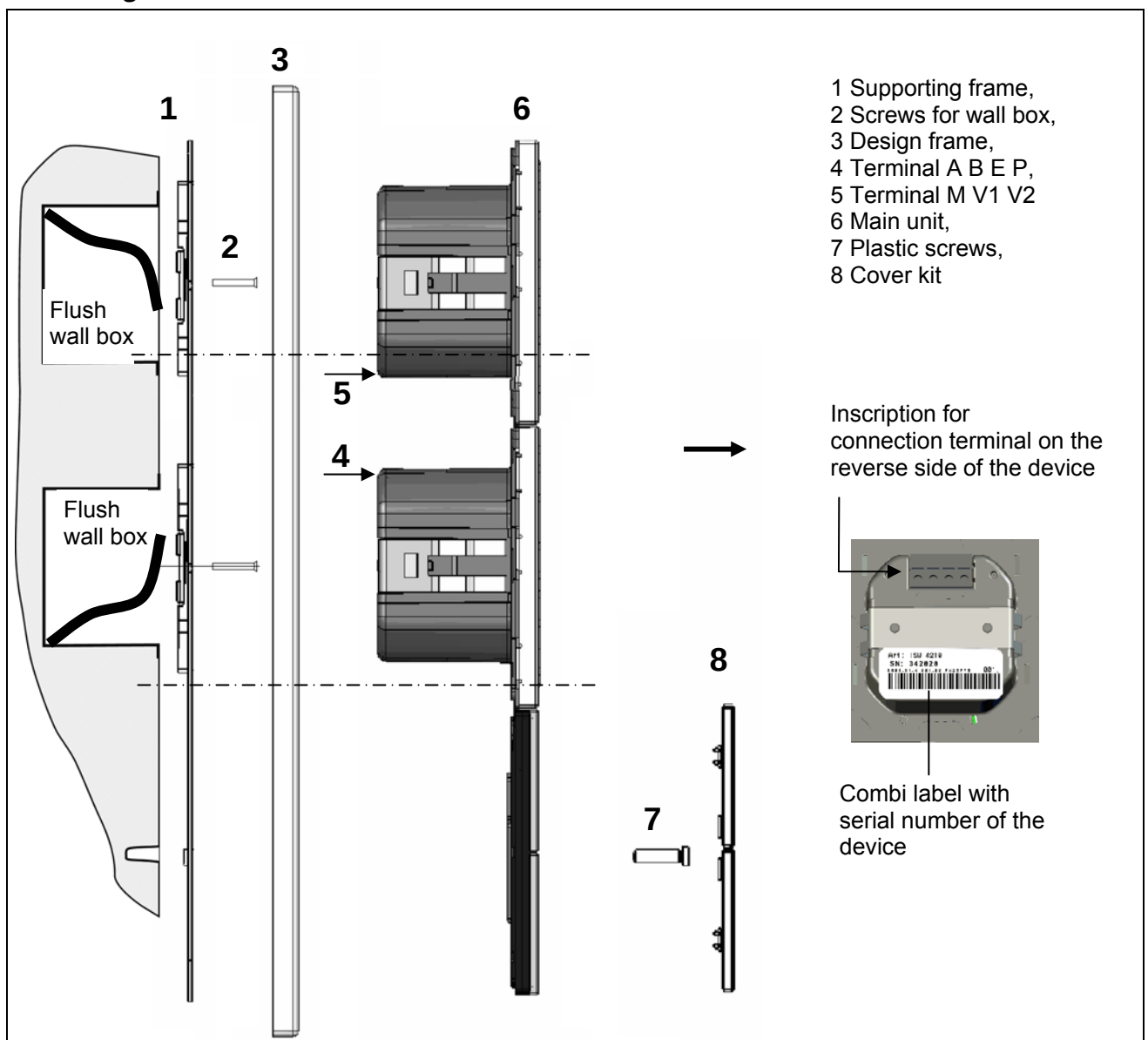


Connection of wires

- Remove the connection blocks (4 and 5).
- Connect the wires to the connection block as inscribed (A B E P and M V1 V2) on the reverse side of the device.

Attention!
Disconnect the mains before mounting or dismounting the video indoor station !

Mounting



- Place the wall box according to DIN 49 073 into the wall
- For flush-mounted installation, the plastic screws (7) have to be submerged into the wall. Consider 2 drillings $\varnothing$ 6 x10 mm into the wall. Use supporting frame as template.
- Connect the supporting frame (1) with the delivered screws (2) onto the wall box.
- Put the design frame (3) onto the main unit (6) and plug the wired connection block onto the connection terminal (4 and 5).
- Latch the main unit (6) with the design frame (3) onto the supporting frame (1).
- Connect the main unit (6) to the supporting frame (1) with the delivered plastic screws (7). Tighten the plastic screws only finger tight.
- Clip on the cover kit (8) as shown in the device overview on page 6.

Commissioning



Please complete the full installation before you connect the system to the mains voltage!

- Do NOT connect V1 and V2 with the P-, M-, a- or b-wire. Even a connection for a quick moment will destroy the device.
- When connecting the video wires V1 (+) and V2 (-) observe polarity. If you can see a distorted image on the display, switch off the mains voltage and change the wires V1 and V2.

- Install all of the devices of the system completely.
- Check the a-, b-, P-, M-, V1- and V2 wires for short-circuit.
- Switch on the mains voltage.
The following functions are available without additional programming:
 - communication from the indoor stations to the outdoor station
 - door release function
 - light switching
- Programming of the DCM system see manual of outdoor station.

Device settings

Storing the device settings

The indoor station is equipped with an EEPROM. After mains voltage failure following re-mains saved in the EEPROM: Selected ring tone, ring tone volume/mute, activated call diversion, internal call, automatic door release, control functions and light switching.

Note: Programming bell buttons of the outdoor station

In general the bell buttons of an outdoor station can be programmed manually. Sub door calls have to be programmed with the service device or the commissioning software.

Factory settings

Timeout setting mode	after approx. 8 s
Indication of green LED after pushing communication button when communication is occupied	green LED flashes 3 x
Stand-by after internal call	approx. 30 s after incoming call
	approx. 30 s when the device calls and waiting for answer
Limited communication time	approx. 2 min
Display ON	80 s
Floor door release time	approx. 30 s

Starting video display depending on AS-address

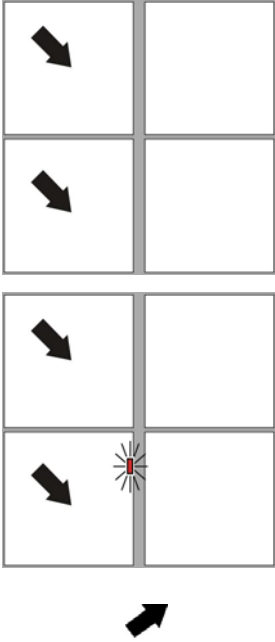
A DCM system may contain outdoor station with and without cameras. The display of the video indoor station does not start, when the door call is triggered from an outdoor station without camera.

To assure this function, the AS-addresses are divided into 2 sections:

AS-address 0 – 31*	reserved for video outdoor stations	video display starts with door call (max.16 video outdoor stations)
AS-address from 32 *	for outdoor stations without camera	video display does not start with door call

*) Die AS-Video-Limit can be changed in the device or with the commissioning software

Reloading factory settings

		Attention ! All settings are reset to factory settings. • Push ring tone button and function button (for approx. 8 s) until you can hear acknowledge tone. • LED is illuminated for approx. 3 s then the LED is OFF • The video indoor station switches into idle mode. • release the buttons
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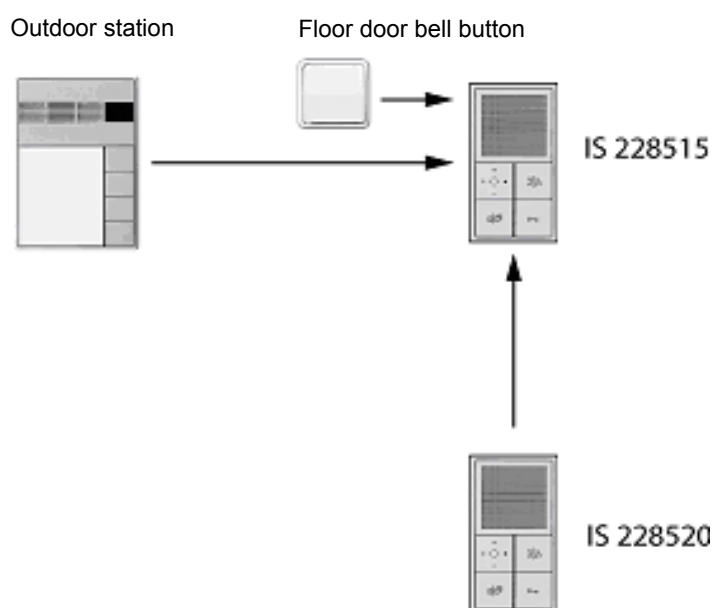
Now you can switch the **light** by means of pushing the function button.

Adjusting the function button with the service device

The initiation starts always with the key combination ***95#Ser.-Nr.#** .

Initiation	* 95 # Ser.-Nr. #
Call diversion	* 90 # Ser.-Nr. # ZielSNr. #
Automatic door release	* 91 # Ser.-Nr. #
Internal call	* 92 # Ser.-Nr. # IntSNr. #
Control function 8	* 93 # Ser.-Nr. #
Parallel function	* 99 # Ser.-Nr. # ParSNr. #

Example:



IS (228515) is assigned to a bell button of the outdoor station.

IS (228520) will be parallel assigned to the IS (228515).

With the following key combination IS (228520) operates parallel with IS (228515).

* 99 # **228520** # **228515** #

Note:

Deleting the parallel function with ParSNr = 0.

* 99 # **228520** # **0** #

- Ser.-Nr. = Serial number of the indoor station which should be adjusted.
- ZielSNr. = Serial number of the target indoor station for a call diversion
- IntSNr. = Serial number of the target indoor station for an internal call
- ParSNr. = Serial number of the (first) indoor station to which the additional indoor station should be assigned.

Operation

The video indoor station is equipped with a display with touch function

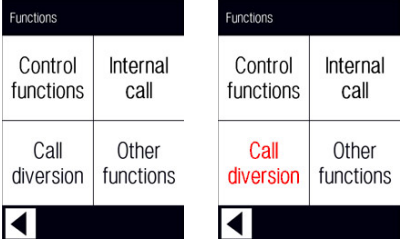
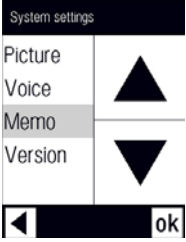
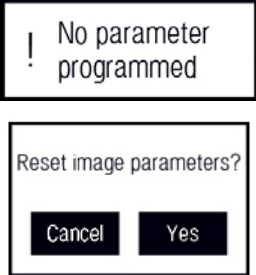
- to display video images (video display) and
- for operation and navigation (menu display).

Press a button of the indoor station and the respective menu appears on the display, e.g.:

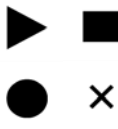
- The video image appears by means of pressing the communication button.
- The menu ring tone volume appears by means of pressing the ring tone button.
- Press the function button (for approx 3 s) to start the HOME display.
The menu navigation takes place on the touch display.

Signs and symbols

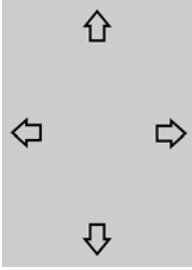
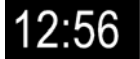
The Display

	Menu with 4 touch button • Headline: Menu description for orientation • Text - black: not active, can be selected - grey: not available, no parameter defined - red: activated, can be selected for deactivation
	Menu with arrows and list with options or names • Grey highlighted text is active or can be selected with the OK-button • If text is not highlighted, it can be selected with arrow buttons
	Error box • Disappear after a short time • Offer selection: Selection required

Symbols of the touch display (Selection)

	Arrows for UP and DOWN: to scroll in a list of options, names, values or functions
	BACK to the previous menu. Settings will not be saved.
	BACK to the HOME menu. Settings will not be saved.
	Select the HOME menu (symbol appears in the camera display) (if the symbol is red, you select the menu MEMOS)
	Confirm selection, accept settings
	(volume) increase (volume) decrease
	Voice memo or ring tone recording Buttons: Play, Stop, Recording, Delete Symbol: Red: Button is active or can be selected Black: not active, can not be selected White with green background: Action is in progress

Video display

	The video display starts automatically with an incoming door call of a video outdoor station.
	The display shows a detail of the full camera angle. With the touch arrows you can scroll to the hidden sections.
	Number or name of the displayed camera
	Actual time

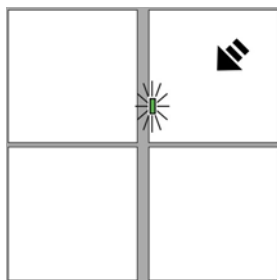
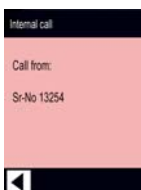
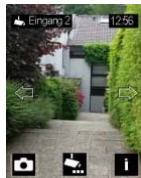
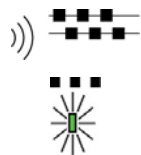
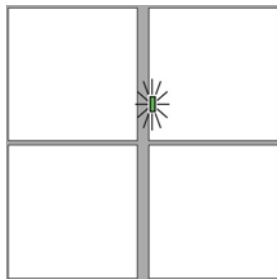
	Save actual display (<i>photo-button</i>)
	Switch between various cameras (<i>camera selection</i>)
	Switch to HOME menu

Signs and symbols in this documentation

      	acknowledge tone
	ring tone
	slow LED flashing: 0.5 s ON / 0.5 s OFF
	fast LED flashing: 0.125 s ON / 0.125 s OFF
	LED illuminated
	LED pulse flashing: 0.5 s ON / 1.5 s OFF
	LED OFF
   	short centrally push of button
	short push of button section
	push button until
	release the button
 	sound of loudspeaker / indoor station
	voice, talking message

Communication

Start communication after incoming door call or internal call

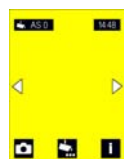


Door call

- You can hear the selected ring tone and the green LED of the communication button flashes.
- You can see the camera image of the calling outdoor station

Internal call

- Push the communication button to start the connection (max. 1 s).
The green LED is illuminated.
The communication is connected.

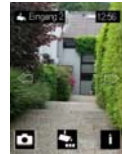
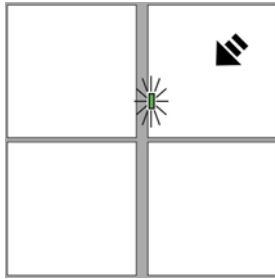


After incoming call from an audio outdoor station you can read the message: No video available.

After an incoming door call from a unknown video station, no image is displayed. The unknown video station has to be set up.

- Touch the symbol *photo-button* to save the displayed image
(Video source settings see: Camera properties)

Communication without incoming call



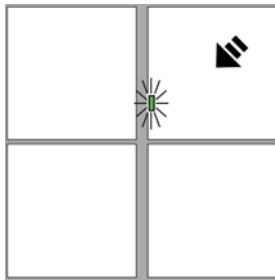
This function can be **deactivated** with the SERVICE DEVICE or the commissioning software (Communication only after incoming call).

- Press the communication button to start a hands free communication with the outdoor station.

The image of the last activated (saved) camera will be displayed.

*During an existing communication of another indoor station and these outdoor station, you can read the message: **Video currently in use***

Stop communication



The communication will be stopped:

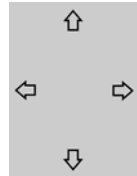
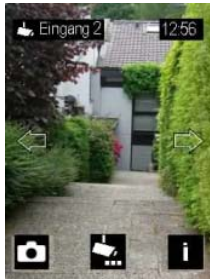
- by means of pushing the communication button (max. 1 s)
- when the preset communication time of the outdoor station is elapsed (factory setting: 1min.)
- by means of pushing the door release button.
- Disconnected communication: The LED turns off.

Turn off display

- The display turns off automatically after a predefined time (0.5 to 3 min), if no other button or door call will be triggered.
- The predefined time can be adjusted of the installer of the DCM system.

Operation after incoming door call

Video display operation



Zoom image

- Tip onto the image centre
1x tip – Zoom factor 1.5
2x tip – Zoom factor 2
3x tip – Back to zoom factor 1

Scroll display detail

You can scroll the display to show hidden sections

- Tip onto the arrows to scroll left/right/up/down.

Save image manually

The image of an incoming door call will be stored automatically. (with time stamp).

- You can save an additional image by means of pressing the **photo-button** symbol.
To display the saved image see:
Play and delete voice memo, display saved images, page 27.

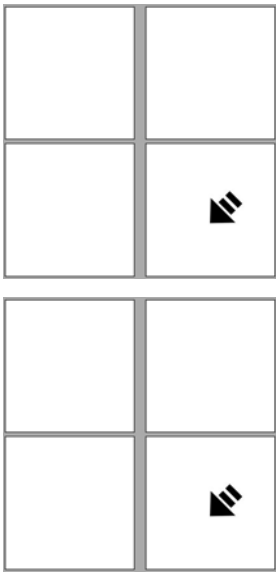
Select camera

- You can press onto the symbol **camera selection** to toggle between the system cameras. The name of the selected camera is indicated in the upper left corner.

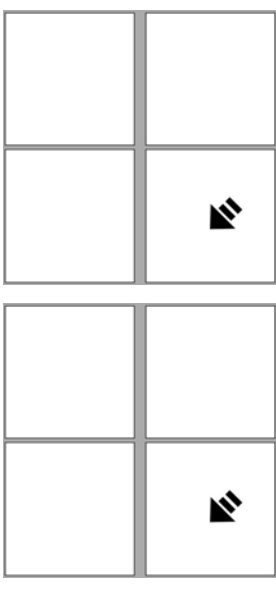
Select memos

- White i: **NO** new voice memo recorded. Pressing the **i-button** opens the menu HOME.
- Red i: **New** voice memo recorded, Pressing the **i-button** opens the menu MEMOS.

Door release

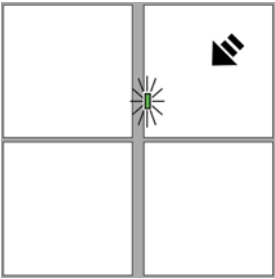
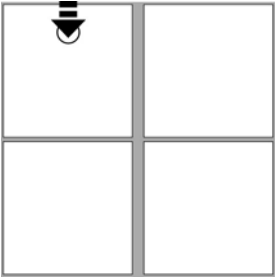
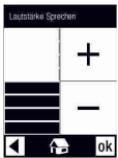
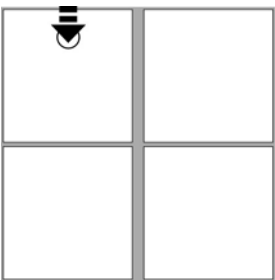
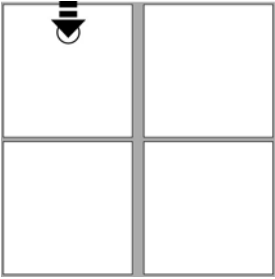
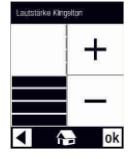
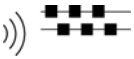
		No existing communication and no image on the display: • Press the display/door release button, to switch on the display. • Press the display/door release button again, to release the door. The red LED is illuminated and the door release will be triggered.
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Light switching

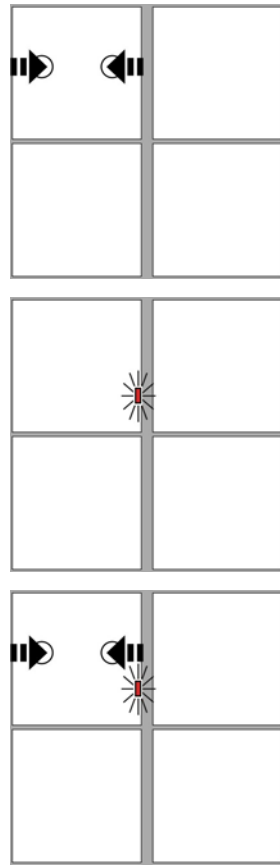
		• Push the function button, when the function button is assigned with light switching (factory setting). When light switching function* is activated: (see <i>manual of power supply & control unit</i>). • Press the display/door release button, to switch on the display. • Press the display/door release button again to switch on the light. The LED is off.
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* = please see *explanation of terms and definitions* on page **xx**

Volume settings

Voice volume		
 		Preparation The indoor station must be in talking mode. - Adjust the voice volume during an active communication between indoor and outdoor station. (Press the communication button to start a communication.) - Push ring tone button at the TOP section (for approx. 1 s). - You can see the menu Volume speech on the display - Now you can adjust the volume with + or – Save the settings with OK.
Volume voice memo		
		- Play a recorded message (see voice memo function on page 24) Push ring tone button at the TOP section (for approx. 1 s). - You can see the menu Volume memo on the display - Now you can adjust the volume with + or – Save the settings with OK.
Ring tone volume		
	 	Preparation DCM system is in idle mode. Increase ring tone volume Push ring tone button at the TOP section (for approx. 1 s). - You can see the menu Volume ring tone on the display - now you can adjust the volume with + or – Save the settings with OK. - You can hear the selected ring tone volume.

Ring tone OFF / ON



Preparation

DCM system is in idle mode.

Ring tone OFF

- Push ring tone button LEFT or RIGHT.



The LED is illuminated, the ring tone is OFF.

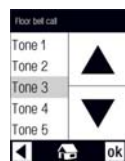
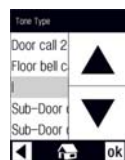
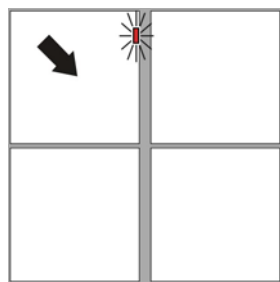
Ring tone ON

- Push ring tone button LEFT or RIGHT.
- The LED turns off, the ring tone is ON again.



Ring tone settings

Select ring tone



You can select ring tones for: 2 different main door calls, floor bell call, internal call, 4 different sub door calls

Preparation

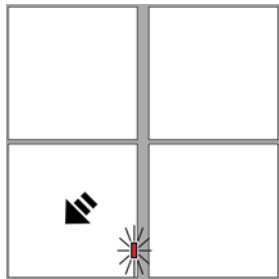
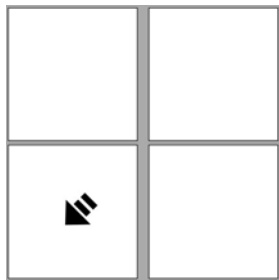
DCM system is in idle mode.

- Push ring tone button (for approx. 8 s) until you can hear an acknowledge tone
- fast LED flashing
- Release the ring tone button
- You can see the menu **Tone type** on the display
- Select a tone type with the button ▲ ▼ or press on the description in the list.
- Now you can select a ring tone with the button ▲ ▼ or press on the description in the list.
- You can hear the selected ring tone.

Note: If you select a ring tone to fast, you can only hear the last ring tone.

Function button

Features of the function button



Short push of the function button (max. 1 s).
Depending on the set function the indoor station indicates the action with visual or acoustic signals:

Features of the function button		
Light switching	-	-
Internal call	✓	flashing
Call diversion ON	-	✓
Call diversion OFF	-	✗
Automatic door release ON	-	✓
Automatic door release OFF	-	✗
Control function	-	-

- no reaction,
✓ visual or acoustic signals,
✗ turns off

The functions internal call, call diversion and automatic door release of the video indoor station can not be selected directly with the function button.

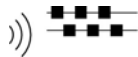
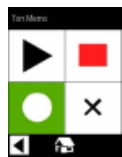
If the function button is programmed with one of these functions (internal call, call diversion and automatic door release), you can call the respective menu in the display with the function button.

Record, play or delete a ring tone

You can record a sound or ring tone with the microphone of the indoor station. The max. recording time is approx. 3 s. After recording the new ring tone / sound has to be selected as a new ring tone (see "ring tone selection").

Record a ring tone

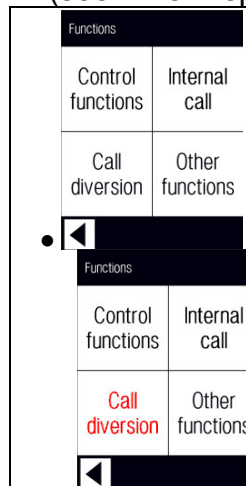
- ▷ Function button HOME
- ▷ System settings
- ▷ Voice
- ▷ Record ring tone



Preparation

Start the menu as explained in the left column

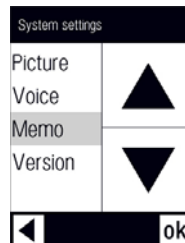
- Press the record symbol
(see: The Display)



Menu with 4 touch buttons

- Headline: Menu description for orientation
- Text
 - black: not active, can be selected
 - grey: not available, no parameter defined
 - red: activated, can be selected for deactivation

Menu with arrows and list with options or names



- Grey highlighted text is active or can be selected with the OK-button
- If text is not highlighted, it can be selected with arrow buttons



Error box

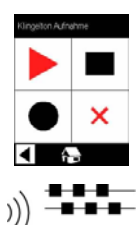
- Disappear after a short time
- Offer selection: Selection required

- Symbols of the touch display (Selection)

- You can hear a signal.
- The device starts recording.
- Play your sound in front of the microphone with a

		normal volume. • Press the symbol <i>Stop</i> to stop the recording. The recording stops automatically after 3 s. If you want to record a NEW ring tone, you first have to delete the last ring tone with the <i>delete</i> button.
--	--	---

Play recorded ring tone

		• Press on <i>play</i>. • Now you can hear the recorded ring tone.
--	---	---

Delete recorded ring tone

		• Press on the symbol <i>delete</i>. • Now you have deleted the ring tone <i>Note:</i> Make sure to record a ring tone, if your custom ring tone is assigned to an outdoor station or internal call.
--	---	--

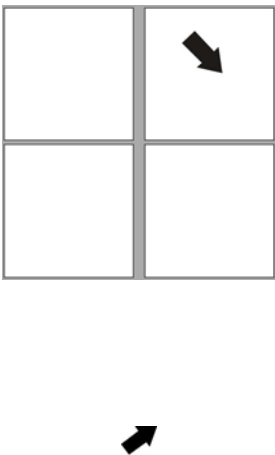
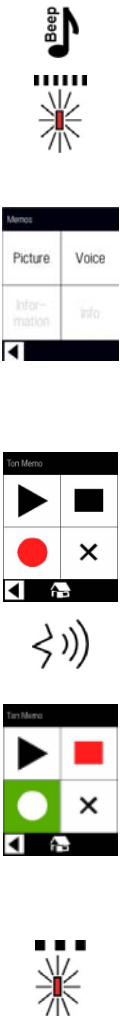
The device turns automatically back into idle mode.

Voice memo function

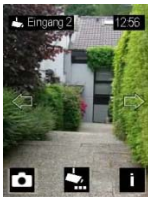
You can record a voice memo with the microphone of the indoor station. The max. recording time is approx. 30 s. After recording, the new voice memo will be indicated by means of the flashing LED. It is possible to save one voice memo.

You will delete the old voice memo by means of recording a new memo.

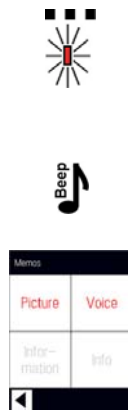
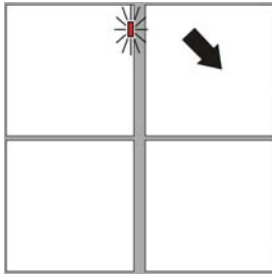
Record a voice memo

		• Push communication button until you can hear acknowledge tone (after 4 s). • you can see the menu <i>Memo</i> on the display • release the communication button • Press the symbol <i>Recording</i> until you can hear an acknowledge tone • The recording starts Now start speaking your message with a normal voice into the microphone • Press the symbol <i>Stop</i> to finish your message. After 30 s the stops the recording automatically and indicates it with a fast flashing LED. • LED flashes: Indication for a new recorded voice memo If you want to record a NEW voice memo, you first have to delete the last voice memo with the <i>delete</i> button.
---	--	---

Save image

		Automatically The image of an incoming door call will be stored automatically. (with time stamp). Manually The camera display is switched on. Now you can save an additional image by means of pressing the photo-button symbol.
--	---	---

Play and delete voice memo, display stored pictures



- LED flashes:
Indication for a new voice memo.
- Push communication button until you can hear acknowledge tone (after 4 s)
- you can see the menu *Memo* on the display
- release the communication button.



Play voice memo

- Select voice memo
- Press the symbol *play*.
- You can hear the voice memo. The LED turns off.
- You can play the voice memo again.



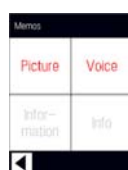
LED off:

The last voice memo has already been played. you can play it again. (Home/Memos/Voice/Play).



Delete voice memo

- Press the symbol *delete*.



Display stored images

- Press the symbol *picture*.

The 2 last stored pictures in standard or zoom view are displayed.

- Press on one picture and it will be shown on the full display. Scrolling and zooming is possible.
- Select more stored pictures with the symbols ▲ ▼



Settings with the menu display

The setting takes place via the menu in the display.

Various functions can be operated or selected by means of touching the display.

When you press the function button for 3s the display starts with the menu HOME.

The display menu is divided in 3 levels

- User level 1: for the daily use
- User level 2: for simple settings as time and date
- Installer level: for professional device settings (access with PIN)

Access to the 3 levels:

- When you start the display menu you are already on **user level 1**
- Press system settings (menu HOME) until you can hear an acknowledge tone to access **user level 2**
- Press system settings (menu HOME) until you can hear the second acknowledge tone to access the **Installer level**

Enter text and characters



You can enter numbers and names (e.g.: Serial no., camera names, other indoor station names).

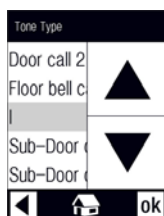
Available: Numbers, letters and punctuation marks. Each button is assigned with multiple characters.

When you press a character button, then you can see all available characters of this button in the headline. Press several times on the same character field to select the required character in the headline. After 2 s the character is selected.

Text input for a touch button

If the text is too long for one line of a touch button you can insert a hyphen (Character button 1) to realise a line-break. If the text also appears in a list, the hyphen will be ignored..

3 lines are possible. The maximum amount of characters depends on the width of selected characters.

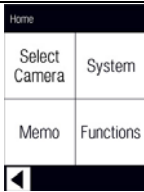


Text input for a list

You can type in text until both lines are filled with characters. If the text is too long for the list, the text starts to flow. Only in the middle line of the list)

- Line-break with ↵.
- Switch to capital letters with ⇧.
- Delete digit with C.
- Save the entered text with ok.

HOME

▷ Function button HOME	- Press the function button for about 4 s. - Now you can select of the following options:
	Camera selection System Memo Functions

Select a camera for video monitoring

▷ Function button HOME Select camera ▷ Camera list ▷ <Camera name>		You have a direct access to 3 cameras. Press the button <i>camera list</i> to see all installed cameras More than 4 cameras: Select the name of the camera with the symbols ▲ ▼ and press OK or press directly on the name of the camera.
---	---	--

Display settings

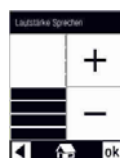
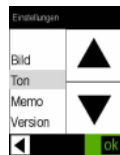
▷ Function button HOME ▷ System settings ▷ Display ▷ Colour Contrast Brightness Reset		You can see the camera image (if the DCM system is not in use of an other video indoor station). - Adjust the parameters <i>colour</i>, <i>contrast</i> or <i>brightness</i> with the symbols + or – and save with OK. Reset With the reset button you can reload the factory settings - Confirm with YES, if you want to reload the factory settings.
--	---	--

Volume settings

- ▷ Function button HOME
- ▷ System settings
- ▷ **Audio**
- ▷ Volume speech
- Volume ring tone

Ring tone

Record ring tone



- Adjust the volumes with the symbols + or – and save with OK.

Ring tone

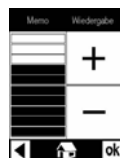
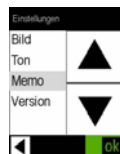
- Hier können Sie Ruftöne auswählen, siehe **S.Fehler! Textmarke nicht definiert.**

Aufnahme Klingelton

- Siehe **Fehler! Verweisquelle konnte nicht gefunden werden., S. Fehler! Textmarke nicht definiert.**

Volume settings for voice memo

- ▷ Function button HOME
- ▷ System settings
- ▷ Memo



- Stellen Sie mit + oder – die Lautstärke ein, speichern Sie mit ok.

Memos

- ▷ Function button HOME
- ▷ Memos
- ▷ Image

▷ Memo



Bild

Schrift schwarz: Kein neues Bild aufgezeichnet.
Schrift rot: neue(s) Bild(er) aufgezeichnet.

Ton

Schrift rot: Neue Nachricht aufgezeichnet.
Schrift schwarz: Es ist keine neue Nachricht aufgezeichnet.
Nach dem Löschen kann eine neue Nachricht aufgezeichnet werden.

(Siehe Voice memo function, S. 24).

Menütaste: Steuerfunktion wählen

- ▷ Function button HOME
- ▷ Funktionen
- ▷ Steuerfunktion <Nr.>
- ▷ Auswahl Funkt. <Nr.>
Funkt. <Nr.>
...



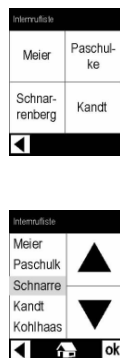
Max. 4 sind direkt aufrufbar, weitere erreichbar über Optionsfeld *Auswahl*.

Mehr als 4 Kameras:

- Wählen Sie in der Optionsliste mit ▲ ▼ oder durch Tippen auf die *Funktion* <Nr.> die Steuerfunktion aus, die beim Drücken der Menütaste ausgeführt werden soll.

Menütaste: Internrufziel wählen

- ▷ Function button HOME
- ▷ Funktionen
- ▷ Internruf
- ▷ <Name>
- ▷ Anrufliste <Name>



Max. 4 sind direkt aufrufbar, weitere erreichbar über Optionsfeld *Internruf-Liste*.

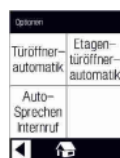
Sortierung in Optionsfeld/Liste nach Seriennummer.

Mehr als 4 Kameras:

- Wählen Sie in der Optionsliste mit ▲ ▼ oder durch Tippen auf die *Funktion* <Nr.> die Steuerfunktion aus, die beim Drücken der Menütaste ausgeführt werden soll.

Menütaste: Option wählen

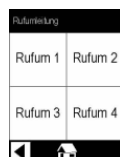
- ▷ Function button HOME
- ▷ Funktionen
- ▷ Optionen
Türöffnerautomatik
Etagentüröffnerautomatik
Auto-Sprechen Internruf



- Rote Schrift: Aktivierte Funktion. Tippen Sie auf ein Optionsfeld.
Türöffnerautomatik, Etagentüröffnerautomatik oder Auto-Sprechen Internruf können alle gleichzeitig aktiviert werden.

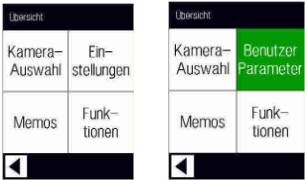
Menütaste: Rufumleitung(ziel) wählen

- ▷ Function button HOME
- ▷ Funktionen
- ▷ Rufumleitung
- ▷ Rufum <Nr.>

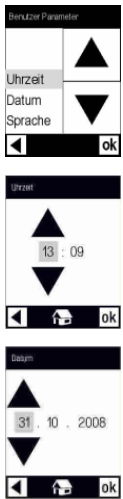


- Rote Schrift: Aktivierte Funktion. Tippen Sie auf ein Optionsfeld.
Rufumleitungsziel 1, 2, 3 oder 4 können aktiviert werden.

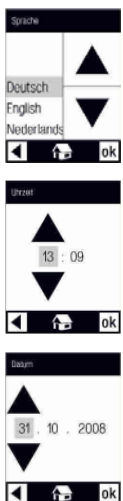
Ebene Benutzer

▷ Function button HOME ▷ System settings ▶ Benutzer Parameter	• Drücken Sie die Menütaste länger als 4 s. • Tippen Sie so lange auf das Optionsfeld <i>Einstellungen</i>, bis ein Quittungston ertönt (nach ca. 4 s). Die Optionsfeldbezeichnung ändert sich in <i>Benutzer Parameter</i>. <i>Diese Ebenen kann durch den Installateur mit einem Sicherheitscode (PIN) geschützt werden (siehe Benutzer PIN festlegen, S. 32) . Werkseinstellung: kein PIN festgelegt.</i>
	Uhrzeit Datum Sprache Benutzer PIN

Uhrzeit und Datum einstellen

▷ Function button HOME ▷ System settings ▶ Benutzer Parameter ▷ Uhrzeit ▷ Stunde ▷ Minute ▷ Datum ▷ Tag ▷ Monat ▷ Jahr		• Tippen Sie auf die <i>Minuten-</i> oder <i>Stunden-</i> Ziffern, die Sie einstellen wollen. • Stellen Sie die Ziffern mit ▲▼ ein. • Die Einstellung ist gespeichert. Tippen Sie auf <i>ok</i>. • Tippen Sie auf die <i>Jahr-, Monat-</i> oder <i>Stunden-</i> Ziffern, die Sie einstellen wollen. • Stellen Sie die Ziffern mit ▲▼ ein. • Die Einstellung ist gespeichert. Tippen Sie auf <i>ok</i>.
---	--	---

Sprache einstellen

▷ Function button HOME ▷ System settings ▶ Benutzer Parameter ▷ Sprache ▷ Deutsch ▷ English ▷ Nederlands		• Wählen Sie in der <i>Sprachen</i>-Liste mit ▲▼ oder durch Tippen auf die <i>Sprache</i> die gewünschte Sprache aus. Die Auswahl ist gespeichert, alle Menüs werden in der ausgewählten Sprache dargestellt.
--	---	---

Benutzer PIN festlegen

- ▷ Function button
HOME
- ▷ System settings
- ▶ Benutzer Parameter
- ▷ PIN Benutzer



Zum Schutz vor unerwünschter Benutzung der Benutzer-Ebene kann hier ein Sicherheitscode (PIN) festgelegt werden.

- Geben Sie eine 4-stellige ein, speichern Sie mit ok.

Eingabekorrektur mit C.

Ebene Installateur

▷ Function button HOME ▷ System settings ▶ Install. Parameter	• Drücken Sie die Menütaste länger als 8 s. • Tippen Sie so lange auf das Optionsfeld <i>Einstellungen</i>, bis ein erster und ein zweiter Quittungston ertönt (nach ca. 4 s und 8 s). Die Optionsfeldbezeichnung ändert sich in <i>Install. Parameter</i>. <i>Diese Ebene ist werksseitig durch mit einem Sicherheitscode (PIN) geschützt. Dieser ist identisch mit der Seriennummer Ihrer Video-Innenstation.</i>
	Rufumleitung Steuerfunktion Internruf Kamera Parallelzuordnung Abschaltung Timeout Menütaste Parameter AS-Grenze

Rufumleitung(sziel) konfigurieren

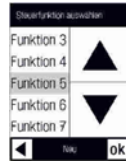
▷ Function button HOME ▷ System settings ▶ Install. Parameter ▷ eing. <i>PIN Benutzer</i>, ▷ ok ▷ Rufumleitung ▷ (<i>Leer</i>) <Name> Bearbeiten ▷ Löschen Bearbeiten		• Tippen Sie auf <i>Neu</i> in der Fußleiste des Menüs, wenn Sie ein neues Rufumleitungsziel erstellen wollen oder auf eines der Optionsfelder <i>Rufuml <Nr.></i>, wenn Sie ein Rufumleitungsziel ändern wollen. Neues Rufumleitungsziel • Tragen Sie die Seriennummer des Rufumleitungsziels ein. • Geben Sie einen Namen für das Rufumleitungsziel ein anstelle (<i>Leer</i>). • Das Rufumleitungsziel ist gespeichert. Rufumleitungsziel bearbeiten • Wählen Sie ein Rufumleitungsziel aus. Ändern Sie ggf. die Seriennummer des Rufumleitungsziels. Bearbeiten Sie den Namen für das Rufumleitungsziel. Das Rufumleitungsziel ist gespeichert. (Texteingabe siehe <i>Enter text and</i> , S. 27). <i>Sind bereits 4 Rufziele festgelegt, wird eine Fehlermeldung (Speicher voll) ausgegeben. Dann ist nur Bearbeiten oder Löschen eines Rufziels möglich.</i>
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Steuerfunktion konfigurieren

- ▷ Function button HOME
- ▷ System settings
- ▶ Install. Parameter
- ▷ eing. PIN Benutzer
- ▷ ok
- ▷ Steuerfunktion
- ▷ (Leer)

<Name>

- ▷ Löschen Bearbeiten



- Tippen Sie auf *Neu* in der Fußleiste des Menüs, wenn Sie eine neue Steuerfunktion erstellen wollen oder auf eines der Optionsfelder *Funktion <Nr.>*, wenn Sie eine Steuerfunktion ändern wollen.

Neue Steuerfunktion

- Tragen Sie die gewünschte Steuerfunktionsnummer ein.
- Geben Sie einen Namen für diese Steuerfunktion bei *(Leer)*.
- Die Steuerfunktion ist konfiguriert.

Steuerfunktion bearbeiten

- Wählen Sie die zu bearbeitende *Steuerfunktion <Nr.>* aus. Tippen Sie auf *Bearbeiten*.
- Ändern Sie die Steuerfunktionsnummer.
- Bearbeiten Sie den Namen für die Steuerfunktionsnummer.

Die Steuerfunktion ist konfiguriert.

(Texteingabe siehe *Enter text and* , S. 27).

Sind bereits 16 Steuerfunktionen festgelegt, wird eine Fehlermeldung (Speicher voll) ausgegeben. Dann ist nur Bearbeiten oder Löschen der Steuerfunktion möglich.

Internruf(ziel) konfigurieren

- ▷ Function button HOME
- ▷ System settings
- ▶ Install. Parameter
- ▷ eing. PIN Benutzer
- ▷ ok
- ▷ Internruf
- ▷ (Leer)



- Tippen Sie auf *Neu* in der Fußleiste des Menüs, wenn Sie ein neues Internrufziel erstellen wollen oder auf eines der Optionsfelder *Rufuml <Nr.>*, wenn Sie ein Internrufziel ändern wollen.

Neues Internrufziel

- Seriennummer des Rufziels eintragen

<Name> ▷ Löschen Bearbeiten		• Namen für Rufziel eingeben anstelle (<i>Leer</i>). • Das Rufziel ist konfiguriert. Internrufziel bearbeiten • Wählen Sie das Internrufziel aus. • Ändern Sie die Seriennummer des Internrufziels. • Bearbeiten Sie den Namen für das Internrufziel. Das Internrufziel ist konfiguriert. (Texteingabe siehe <i>Enter text and</i> , S. 27). <i>Sind bereits 16 Steuerfunktionen festgelegt, wird eine Fehlermeldung (Speicher voll) ausgegeben. Dann ist nur Bearbeiten oder Löschen der Steuerfunktion möglich.</i>
---	--	--

Camera properties

- ▷ Function button HOME
- ▷ System settings
- ▶ Install. Parameter
- ▷ eing. PIN Benutzer
- ▷ ok
- ▷ Kamera

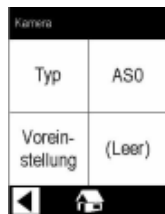
- ▷ Neu
- ▷ Bearbeiten

- ▷ Typ

AS 0

Voreinstellung
▷ Ausblenden
Zoom

- <Name>
- ▷ <Name>
- ▷ Löschen Bearbeiten



Vorbereitung

- Informieren Sie sich über den Typ Ihrer Kamera: NTSC, PAL, Jung (digital) oder PTZ (steuerbar).
- AS-Adresse setzen und sperren mit dem Servicegerät oder der Jung Inbetriebnahmesoftware.
- Tippen Sie auf *Neu* in der Fußleiste des Menüs, wenn Sie eine neue Kamera speichern wollen oder auf eines der Optionsfelder <Kameraname> oder auf den <Kameranamen> in der Liste, wenn Sie eine Kamera ändern wollen.

Kamera-Typ wählen

Anschließbare Kamera-Typen: NTSC, PAL, Jung (digital) oder PTZ (steuerbar).

- Wählen Sie den *Typ* der angeschlossenen Kamera aus.

AS-Adresse festlegen

- Geben Sie die AS-Adresse der Kamera ein.

Voreinstellung

- Zoom:
Stellen Sie den gewünschten Zoom ein, falls bei Ihrer Kamera möglich, indem Sie auf die Bildmitte tippen.
Tippen Sie auf die Pfeile, um den (gezoomten) Bildausschnitt zu schwenken.
- Speichern Sie die Einstellungen mit ok.

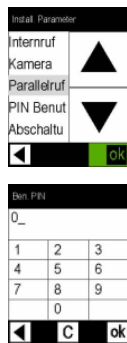
Namen eingeben

- Geben Sie den Kameranamen ein, der in der Kameraliste angezeigt werden soll (z. B. Haustür).

Sind bereits 16 Kameras gespeichert, wird eine Fehlermeldung (Speicher voll) ausgegeben. Dann ist nur Bearbeiten oder Löschen der Kamera möglich.

Parallelzuordnung konfigurieren

- ▷ Function button HOME
- ▷ System settings
- ▶ Install. Parameter
- ▷ eing. *PIN Benutzer*
- ▷ ok
- ▷ Parallelruf
- ▷ Löschen Bearbeiten



Parallelzuordnungsquelle bearbeiten

- Geben Sie die Seriennummer des Gerätes ein, dessen Rufe dieses Gerät signalisieren soll. Speichern Sie mit ok.

Ist keine Nummer eingetragen, ist keine Parallelzuordnung aktiv.

PIN Benutzer

- ▷ Function button HOME
- ▷ Einstellungen
- ▶ Install. Parameter
- ▷ eing. *PIN Benutzer*
- ▷ PIN Benutzer
- ▷ Löschen Bearbeiten



Hier kann ein PIN festgelegt werden, um grundlegende Einstellungen der Ebene Benutzer vor unerwünschter Manipulation zu schützen oder eine auf der Ebene Benutzer festgelegte PIN und vergessene PIN neu zu vergeben.

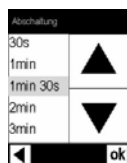
PIN bearbeiten

- Geben Sie die gewünschte Nummer ein, speichern Sie mit ok.

Ist keine Nummer eingetragen, ist kein PIN wirksam.

Abschaltung festlegen

- ▷ Function button HOME
- ▷ System settings
- ▶ Install. Parameter
- ▷ eing. *PIN Benutzer*
- ▷ ok
- ▷ Abschaltung

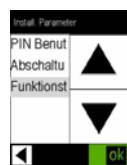


Erfolgt eine Zeitlang keine Aktion, die die Video-Innenstation aktiviert (z. B. ein eingehender Tür-ruf oder Drücken der Menütaste) wird das Display abgeschaltet.

- Wählen Sie die Zeit aus, die Zeit ist gespeichert.

Menütaste: Funktion auswählen

- ▷ Function button HOME
- ▷ System settings
- ▶ Install. Parameter
- ▷ eing. *PIN Benutzer*
- ▷ ok
- ▷ Menütaste



- Wählen Sie die Funktion aus, die beim Drücken der Menütaste aktiviert werden soll. Die Funktion ist gespeichert.

Parameter: Video-AS-Grenze und Türruf-AS-Grenze festlegen

- ▷ Function button HOME
- ▷ System settings
- ▶ Install. Parameter
- ▷ eing. *PIN Benutzer*
- ▷ ok
- ▷ Parameter
- ▷ Audio AS Grenze
 - ▷ AS <Nr.>

- Video AS Grenze
 - ▷ AS <Nr.>



Hier können die Grenzen für den Türruf-Bereich und den Video-AS-Adressbereich für in der Anlage befindliche Außenstationen und Kameras verändert werden.

Eine Bildaufschaltung bei einem eingehenden Türruf erfolgt nur für den Adressbereich *Video*.

Hier können die Grenzen der AS-Adressen eingestellt werden.

Türruf-AS-Grenze: Grenze zwischen Ausgabe von Türruf 1 und Türruf 2. Vom (festgelegten) Grenzwert an aufwärts wird Türruf 2 ausgegeben. (Grundeinstellung alle AS ab AS1)

Video-AS-Grenze: unterhalb des Grenzwertes wird ein Bild aufgeschaltet (Außenstationen mit Kamera oder zugeordneter Kamera. Vom (festgelegten) Grenzwert an aufwärts wird kein Bild aufgeschaltet (Außenstation ohne Kamera). (Grundeinstellung: Außenstation AS0-32 mit Video/ Außenstation mit AS33 -63 ohne Video)

Untere Grenze eines AS-Bereiches festlegen

- Geben Sie die eine Zahl ein, speichern Sie mit ok.

Explanation of terms and definitions

AS-address	Every outdoor station is assigned with an outdoor station address . The address enables the differentiation between the various installed outdoor station. Selective communication or door release of e.g. main- or side entrance can be realised.
Ready for operation	Incoming door call - You can hear a ring tone and the LED at the communication button flashes. You can activate a communication with the outdoor station by means of a short push of the communication button.
Hands-free operation (Full duplex)	Simultaneous communication in both directions.
Door call	You release a door call at the assigned indoor station by means of pushing the bell button. A bell button can release a door call at two indoor stations (parallel call).
Internal call	An indoor station can call another assigned indoor station for an internal communication.
Automatic light switching <i>Programming at the outdoor station.</i>	The light will be switched depending on the ambient brightness when you push the bell button of the outdoor station. The limited brightness value is adjustable.
Light switching	The function button of the indoor station is assigned with the function "light switching" (factory setting). A bell button of the outdoor station will switch the light, if the bell button is not assigned to an indoor station.
Light switching function <i>Programming at the power supply and control unit.</i>	This door release button of the indoor station can be assigned with a second function, when the light switching function is activated: You first have to push the communication button before you can release the door with the door release button. Without pushing the communication button you will switch the light with the door release button.
Parallel call	A second indoor station can be programmed to a bell button of the outdoor station.
Parallel function <i>Programming only with the service device.</i>	Multiple indoor station can respond to one bell button of the outdoor station or the floor bell button. Each further indoor station respond just as the first indoor station.
Programming mode	The system has to be in programming mode to assign the indoor stations to the desired bell buttons of the outdoor station.
Programming lock	Protection against unauthorized programming. With active programming lock no bell button can be programmed.
Acknowledge tone	Acoustical confirmation
Idle mode	The device is ready for a door call or other operation.
Call diversion	An incoming door call will be forwarded from one indoor station to another indoor station. The call diversion has to be activated with the function button. The illuminated LED of the function button indicates the activated call diversion.

Talking mode	A communication between indoor and outdoor station will be activated by means of pushing the communication button. The LED of the communication button is illuminated. The LED of the communication button is flashing, when another indoor station is already communicating with the outdoor station. After elapsed talking time, activating the door release or pushing the communication button again, the device turns back into idle mode.
Talking only after incoming door call <i>Programming only with the service device.</i>	A communication between indoor and outdoor station can only be activated after an incoming door call.
Talking time	The communication between indoor and outdoor station will be interrupted after a pre-defined talking time (60 s factory setting). The talking time is adjustable.
Control function	Command for the control various relays in the door communication system.
Sub door call <i>Programming only with the service device.</i>	The sub door call enables to assign 4 additional bell button of the outdoor station to the same indoor station. Each bell button can be assigned to a separate ring tone (e.g.: individual ring tones for each family member).
Automatic door release	The door release relay will be activated by means of pushing the bell button. The automatic door release can be activated/deactivated with the function button of the indoor station. The LED of the function button indicates the status. LED ON = automatic door release activated LED OFF = automatic door release deactivated
Door release time	The door release relay can be activated for an adjusted time.
Voice memo-function	Record and play a voice memo (message) up to a length of 30 s.

General notes on the wiring in DCM video systems

6-wire operation

The 6-wire operation is the standard operation. A video system requires 2 separate ground potential (b und M). The cabling depends on the building situation and will only be limited by the max. possible cable length.

- Consider the cable length: The loop resistance a-b and M-P shall not exceed a max. of 8 Ω (see table).
- When loop resistance > 8 Ω : Extend the cable diameter by means of using multiple twisted pairs
- line or star-shaped wiring
- Do not install more than 16 Video indoor stations in one line. For systems with more than 20 video stations consider installation of video distributor (TK VV 2 REG or TK VV 2 U)
- Up to 64 outdoor stations (max 16 Video outdoor stations) and unlimited indoor stations can be installed with the adequate power supply & control unit (avoid reverse polarity)

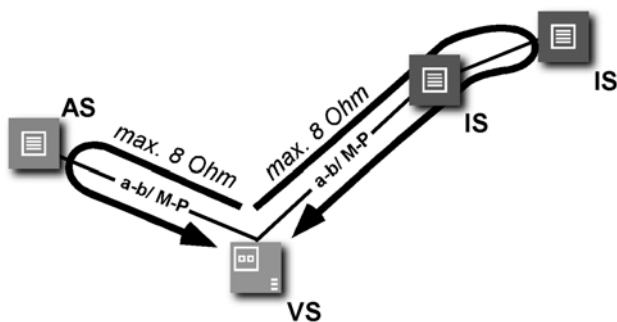
Table: Loop resistance

Wire length of a-b / M-P in m	Cross section	
	0.6 mm	0.8 mm
Loop resistance in Ω		
10	1.22	0.69
20	2.45	1.38
30	3.67	2.07
40	4.90	2.76
50	6.12	3.44
60	7.35	4.13
70		4.82
80		5.51
90		6.20
100		6.89

Principle of loop resistance

Rule:

No door communication device shall have a longer distance from the power supply & control unit than 8 Ohm !



8 Ohm:

65 m wire length AS-VS (IS-VS) at a cross section of 0.6 mm

115 m wire length AS-VS (IS-VS) at a cross section of 0.8 mm

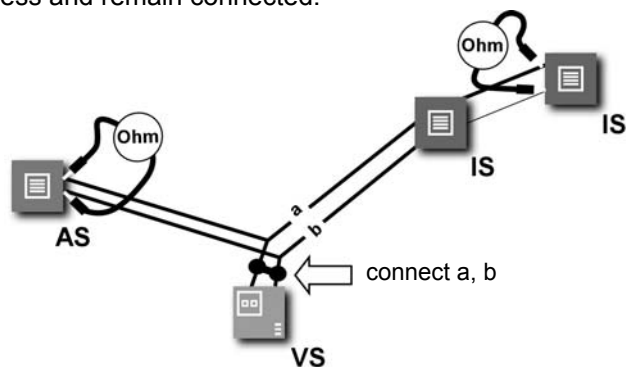
Measuring loop resistance

Rule:

Turn OFF 230 V / 50 Hz of the VS.

Connect a and b short circuit at the VS.

All other devices do not disturb the measuring process and remain connected.



AS: Outdoor station

IS: Indoor station

VS: Power supply and control unit

Technical Data

Supply voltage:

+24 V DC $\pm$ 8 % (Power supply & control unit)

24 V (a-b) / 26 V (P-b) in idle state

Current:

3-wire:

I(a) = 0.1 mA, I(P) = 12 mA in idle state

Max. input current:

I(Pmax) = 190 mA

Protection class:

III

Admissible ambient temperature:

0 °C to 40 °C

Operation humidity:

0 to 93 % r. h., no condensation

Installation height:

1.50 m (recommended)

Display:

TFT Colour display

Screen size:

7.2 cm

Cleaning

! Avoid the penetration of water into this device!
Do not use any aggressive or abrasive cleaning supplies!

Please clean the device with a dry or slightly moist rag.
Intense dirt can be removed with a mild cleaning supply.

Acceptance of guarantee

We accept the guarantee in accordance with the corresponding legal provisions.
Please return the unit postage paid to our central service department giving a brief description of the fault:

ALBRECHT JUNG GMBH & CO. KG

Service-Centre

Kupferstr. 17-19
44532 Lünen
Germany

Service-Line: 0 23 55 . 80 65 51
Fax: 0 23 55 . 80 61 89
E-Mail: mail.vka@jung.de

Technique (DCM)

Service-Line: 0 23 55 . 80 65 52
Fax: 0 23 55 . 80 62 55
E-Mail: mail.vka@jung.de

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Technical subjects to change.
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